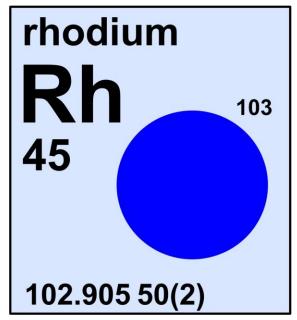
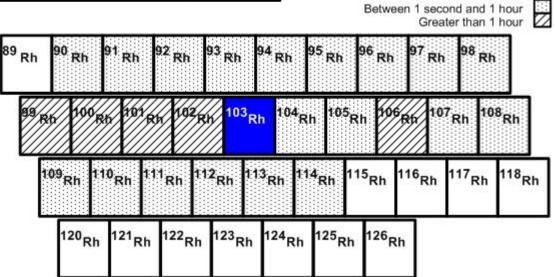
## rhodium



Stable	Atomic mass*	Mole
isotope		fraction
<sup>103</sup> Rh	102.905 504	1.0000

<sup>\*</sup> Atomic mass given in unified atomic mass units, u.

Half-life of redioactive isotope Less than 1 second



## Important applications of stable and/or radioactive isotopes

## Isotopes in medicine

- 1) <sup>105</sup>Rh is one of many high specific radioisotopes used in target radiotherapy to find cancer cells and eradicate them. <sup>105</sup>Rh beta particles allow them to kill the cancer cells or cause
- cancer cell sterilization.

  2) The gamma rays from <sup>105</sup>Rh allow for in vivo tracking.

  3) The <sup>105</sup>Rh is extracted from its parent isotope <sup>104</sup>Ru.

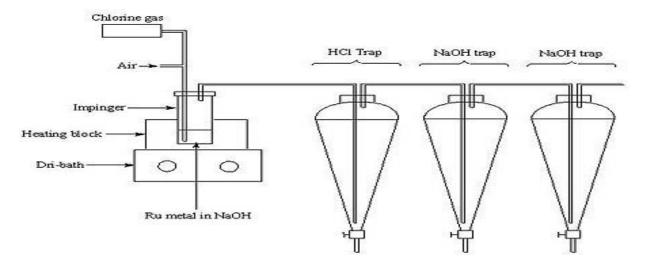


Figure 1: Diagram of an apparatus used to extract <sup>105</sup>Rh from <sup>104</sup>Ru.